

(FILE 'HOME' ENTERED AT 15:08:35 ON 21 MAR 2003)

FILE 'REGISTRY' ENTERED AT 15:09:11 ON 21 MAR 2003

L1 31404 S GTGTTGCGT/SQSN
L2 0 S L1 AND 9-11/SQL
L3 35724 S GTGTTGCGTG/SQSN
L4 0 S L3 AND 9-11/SQL
L5 108987 S GTGTTGCG/SQSN
L6 1 S L5 AND 8-10/SQL

FILE 'CAPLUS' ENTERED AT 15:13:09 ON 21 MAR 2003

L7 1 S L6

FILE 'REGISTRY' ENTERED AT 15:16:47 ON 21 MAR 2003

L8 125552 S GTGTTGCGT/SQSN
L9 0 S L8 AND 8-10/SQL
L10 99534 S GTTGCGTG/SQSN
L11 0 S L10 AND 8-10/SQL
L12 456451 S GTGCTGCA/SQSN
L13 1 S L12 AND 8-10/SQL

FILE 'CAPLUS' ENTERED AT 15:20:14 ON 21 MAR 2003

L14 1 S L13

FILE 'REGISTRY' ENTERED AT 15:20:44 ON 21 MAR 2003

L15 0 S CATGACGAC
L16 41130 S CATGACGAC/SQSN
L17 0 S L16 AND 9-11/SQL
L18 143257 S CATGACGA/SQSN
L19 0 S L18 AND 8-10/SQL
L20 173278 S ATGACGAC/SQSN
L21 4 S L20 AND 8-10/SQL

FILE 'CAPLUS' ENTERED AT 15:24:12 ON 21 MAR 2003

L22 3 S L21

FILE 'STNGUIDE' ENTERED AT 15:26:28 ON 21 MAR 2003

FILE 'REGISTRY' ENTERED AT 15:40:55 ON 21 MAR 2003

L23 80938 S CGTGACGA/SQSN
L24 1 S L23 AND 8-10/SQL

FILE 'CAPLUS' ENTERED AT 15:42:28 ON 21 MAR 2003

L25 1 S L24

FILE 'REGISTRY' ENTERED AT 15:42:47 ON 21 MAR 2003

L26 119279 S GTGACGAC/SQSN
L27 0 S L26 AND 8-10/SQL
L28 0 S L26 AND 9-10/SQL
L29 1 S L26 AND 10-12/SQL

FILE 'CAPLUS' ENTERED AT 15:44:21 ON 21 MAR 2003

L30 1 S L29

L30 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS
 AN 1995:412171 CAPLUS
 DN 123:217925
 TI Impact of biophysical parameters on the biological assessment of peptide
 nucleic acids, antisense inhibitors of gene expression
 AU Noble, Stewart A.; Bonham, Michele A.; Bisi, John E.; Bruckenstein, David
 A.; Brown, Pamela H.; Brown, Stephen C.; Cadilla, Rodolfo; Gaul, Micheal
 D.; Hanvey, Jeffrey C.; et al.
 CS Depts. Med. Chem., Glaxo Res. Inst., Greenford, UK
 SO Drug Development Research (1995), 34(2), 184-95
 CODEN: DDREDK; ISSN: 0272-4391
 PB Wiley-Liss
 DT Journal
 LA English
 AB Peptide nucleic acids (PNA) are oligodeoxynucleotide (ODN) analogs in
 which the sugar phosphate backbone of the ODN has been replaced by one
 derived from units of N-ethylaminoglycine. PNAs recognize DNA and RNA in
 a sequence specific manner and form complexes that can be characterized by
 biophys. methods. The binding motif is context dependent; homopyrimidine
 PNAs combine with complementary polypurine targets to form stoichiometric
 2:1 complexes, whereas PNAs contg. both purine and pyrimidine bases afford
 a 1:1 heteroduplex with mis-match sensitivity comparable to that found in
 dsDNA. These complexes mediate the antigene and antisense effects of PNAs
 via the steric blockade of enzyme complexes responsible for DNA
 transcription, cDNA synthesis, and RNA translation. PNAs, like ODNs, are
 taken up by cells via endocytosis leading to their entrapment within
 intracytoplasmic vesicles. Under circumstances where agent delivery is
 solved by cell microinjection, PNAs can effect selective inhibition of
 endogenous and exogenous genes. The impact of biophys. parameters on the
 biol. assessment of PNAs as antisense inhibitors of gene expression is
 presented and discussed.
 IT 168184-94-9
 RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL
 (Biological study); PROC (Process)
 (impact of biophys. parameters on the biol. assessment of peptide
 nucleic acids as antisense inhibitors of gene expression)
 RN 168184-94-9 CAPLUS
 CN DNA, d(G-T-G-A-C-G-A-C-G-T-A-C) (9CI) (CA INDEX NAME)
 NTE singlestranded
 SEQ 1 gtgacgacgt ac 10/12 = 8370

L22 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2003 ACS
 AN 1997:177411 CAPLUS
 DN 126:195982
 TI Identifying blueberry cultivars and evaluating their genetic relationships using randomly amplified polymorphic DNA (RAPD) and simple sequence repeat- (SSR-) anchored primers
 AU Levi, A.; Rowland, L.J.
 CS Fruit Laboratory, Beltsville Agricultural Research Center, Agriculture Research Service, Beltsville, MD, 20705, USA
 SO Journal of the American Society for Horticultural Science (1997), 122(1), 74-78
 CODEN: JOSHB5; ISSN: 0003-1062
 PB American Society for Horticultural Science
 DT Journal
 LA English
 AB Fifteen highbush (or highbush hybrid) blueberry cultivars (*Vaccinium corymbosum* Linnaeus), two rabbiteye blueberry cultivars (*V. ashei* Reade), and one southern lowbush (*V. darrowi* Camp) selection from the wild were examd. using seventeen 10-base RAPD and seven 15- to 18-base SSR-anchored primers (primers comprised of SSR motifs) in polymerase chain reactions (PCRs). Fifteen RAPD and three SSR markers resulting from these reactions were chosen to construct a DNA fingerprinting table to distinguish among the genotypes included in this study. Similarity values were calcd. based on 132 RAPD and 51 SSR bands, and a dendrogram was constructed based on the similarity matrix. The *V. ashei* cultivars and *V. darrowi* selection grouped out sep. from the *V. corymbosum* cultivars as expected. However, ests. of relative genetic similarity between genotypes within the *V. corymbosum* group did not agree well with known pedigree data and, thus, indicated that RAPD and SSR data did not accurately assess the genetic relationships of cultivars within this species.
 IT 187858-04-4P
 RL: ARG (Analytical reagent use); BPN (Biosynthetic preparation); ANST (Analytical study); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (identifying blueberry cultivars and evaluating their genetic relationships using randomly amplified polymorphic DNA (RAPD) and simple sequence repeat- (SSR-) anchored primers)
 RN 187858-04-4 CAPLUS
 CN DNA, d(A-T-G-A-C-G-A-C-G-G) (9CI) (CA INDEX NAME)

SEQ 1 atgacgacgg 8/10 = 8090